AME	ENDMENT NO	Calendar No
1	pose: To require a study of notive, carbon-effective, efficient tems.	-
IN TH	THE SENATE OF THE UNITED ST	ATES-110th Cong., 1st Sess.
	S. 2191	
_	lirect the Administrator of the Agency to establish a progr of greenhouse gases, and for o	am to decrease emissions
Refe	ferred to the Committee on ordered to be p	and orinted
	Ordered to lie on the table	and to be printed
_	AMENDMENT intended to be p	roposed by Mr. CRAIG
Viz:		
1	At the end of title IX, add	the following:
2 s	SEC. 90 NEW CONCEPTS F	OR COST-EFFECTIVE, CAR-
3	BON-EFFECTIVE,	EFFICIENT, AND FLEXIBLE
4	ENERGY SYSTEMS.	
5	(a) Study.—	
6	(1) In General.—'	The Secretary of Energy
7	shall conduct a study to e	evaluate advanced concepts
8	for improving the cost effe	ectiveness, carbon effective-
9	ness (as measured by co	mparative lifecycle carbon

1	assessments), energy production efficiency, energy
2	use efficiency, flexibility, and security of energy sys-
3	tems in the United States.
4	(2) Inclusions.—The study under this sub-
5	section shall include—
6	(A) a specific evaluation of new ways that
7	nuclear power and renewable resources can con-
8	tribute to the improvements described in para-
9	graph (1), including—
10	(i) the uses of nuclear process heat
11	for transformations of fossil fuels and car-
12	bon dioxide recycling;
13	(ii) the uses of nuclear power to speed
14	the deployment of plug-in hybrid vehicles;
15	(iii) innovative ways to use biomass to
16	reduce the lifecycle carbon cost of using
17	fossil energy for electricity, heat, and
18	transportation fuels;
19	(iv) the potential to use waste carbon
20	dioxide as a heat transfer fluid for geo-
21	thermal energy; and
22	(v)(I) all technology strategies that
23	have the potential to enable the trans-
24	formation of waste carbon dioxide into a
25	valuable energy commodity; and

1	(II) an estimation of the approximate
2	carbon cost needed to justify deployment of
3	those strategies at the current state of
4	commercial development of the strategies
5	and
6	(B) an evaluation of such additional con-
7	cepts as the Secretary determines to be appro-
8	priate.
9	(3) CLARIFICATION.—The study under this
10	subsection—
11	(A) shall not include an evaluation of indi-
12	vidual technologies; but
13	(B) shall include an evaluation of the
14	means by which multiple energy technologies
15	could work in concert to achieve the improve-
16	ments described in paragraph (1).
17	(b) Report.—The Secretary of Energy shall submit
18	to Congress—
19	(1) by not later than 1 year after the date of
20	enactment of this Act, an interim report describing
21	the results of the study under subsection (a) ob-
22	tained during the preceding calendar year; and
23	(2) by not later than 2 years after the date of
24	enactment of this Act, a final report describing the
25	results of the study under subsection (a).